

AS ENCLOSED TO IPER

ART 34 AMDT

We claim:

5

1. A process for the hydrogenation of an organic compound containing at least one carbonyl group, which comprises bringing the organic compound in the presence of hydrogen into contact with a shaped body which can be produced by a process in which

10

(i) an oxidic material comprising copper oxide, zinc oxide and aluminum oxide is made available,

(ii) pulverulent metallic copper or pulverulent cement or a mixture thereof is added to the oxidic material, and

15

(iii) the mixture resulting from (ii) is shaped to form a shaped body.

2. A process as claimed in claim 1, wherein the oxidic material comprises

20

(a) copper oxide in a proportion in the range $60 \leq x \leq 80\%$ by weight, preferably $65 \leq x \leq 75\%$ by weight, *x not defined*

(b) zinc oxide in a proportion in the range $15 \leq y \leq 35\%$ by weight, preferably $20 \leq y \leq 30\%$ by weight, *y not defined*

25

(c) aluminum oxide in a proportion in the range $2 \leq z \leq 20\%$ by weight, preferably $3 \leq z \leq 7\%$ by weight, *z not defined*

30

in each case based on the total weight of the oxidic material after calcination, where $80 \leq x + y + z \leq 100$, in particular $95 \leq x + y + z \leq 100$, and cement is not included as part of the oxidic material in the above sense.

35
3.

- A process as claimed in claim 1 or 2, wherein the pulverulent metallic copper or the pulverulent cement or the mixture thereof is added in an

Alcont

4. A process as claimed in any of claims 1 to 3, wherein the particle size of the pulverulent copper and of the pulverulent cement is in the range from 0.1 to 1000 μm .
5. A process as claimed in any of claims 1 to 4, wherein graphite is added in an amount in the range from 0.5 to 5% by weight, based on the total weight of oxidic material, to the oxidic material or the mixture resulting from (ii).
6. A process as claimed in any of claims 1 to 5, wherein the organic compound is a carboxylic acid, a carboxylic ester, a carboxylic anhydride or a lactone.
7. A process as claimed in claim 6, wherein the organic compound is adipic acid or an ester of adipic acid.

[illegible]